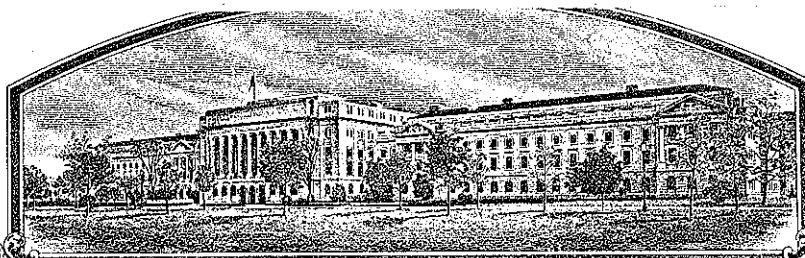


No.

7900069



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

D. J. van der Have B. V.

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

HARD FESCUE

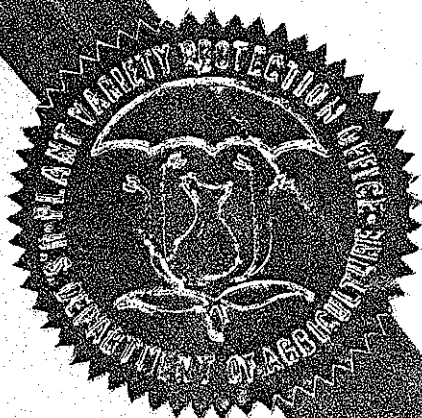
'Silvana'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 11th day of June in the year of our Lord one thousand nine hundred and eighty-one.

Attest:

Samuel H. Lee
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY HDu 32		1b. VARIETY NAME Silvana		FOR OFFICIAL USE ONLY PV NUMBER 7900069	
2. KIND NAME Hard fescue		3. GENUS AND SPECIES NAME Festuca longifolia		FILING DATE 4-4-79	TIME 3:00 P.M.
4. FAMILY NAME (BOTANICAL) Graminae		5. DATE OF DETERMINATION 1975		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 4-4-79 4-27-81
6. NAME OF APPLICANT(S) Koninklijk Kweekbedrijf en Zaadhandel D.J. van der Have B.V.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box 1, 4420 AA Kapelle, Netherlands		8. TELEPHONE AREA CODE AND NUMBER	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Netherlands		11. DATE OF INCOR- PORATION 8th March 1973	
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Mr. Stan Rollin, Seed Consultant P.O. Box 821, 6802 Orem Dr. Laurel, Md. 20810 Beltsville, Md. 20705					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☒ YES ☐ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☒ YES ☐ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? 5/13/81
☐ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☒ YES ☐ NO (If "Yes," give name of countries and dates.)

Netherlands 29-1-1975

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☒ YES ☐ NO (If "Yes," give name of countries and dates.)

Netherlands 10-4-1978

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

February 1979

(DATE)

D.J. Glas

(SIGNATURE OF APPLICANT)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

Rec'd. 4/4/79
3100

5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.

13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.

13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.

13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.

13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.

14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

13A Exhibit A, Origin and Breeding History of the Variety.

Hard fescue plants were collected in the eastern part of the Netherlands during spring of 1965. About 6 plants per location were collected from 50 locations, amounting to 300 plants.

The plants were multiplied vegetatively and observed in clonal rows between 1966 and 1969. Clones with matching appearance were combined in isolation plots and Syn-1 seed was harvested in 1970.

From 1971 till 1973 the experimental varieties were observed in lawn trials on clay and sandy soil in the southwestern part of the Netherlands and in southern Germany.

The experimental variety HDu 32 proved to possess superior turf quality. Syn-2 seed of HDu 32 was harvested in 1973.

In 1973 a spaced plant trial and a new turf trial were established to compare Syn-1 and Syn-2 of HDu 32. No genetic shift in uniformity and turf quality was observed.

In 1975 it was decided to produce enough breeders' seed for the anticipated need over the next 15 years and to release the variety under the varietal name Silvana.

Re.: Application No. 7900069 Hard fescue "Silvana".

Exhibit A.

No variants were observed in 2 generations of reproduction and the variety was stable during 2 generations of reproduction.

Re.: Application No. 7900069 Hard fescue "Silvana".
Exhibit B Novelty statement.

Silvana is most similar to Scaldis, except that Silvana grows more prostrate than Scaldis. This difference proved to be significant in 1975 and 1977 at the $P = 0.01$ level with a χ^2 - test, while in 1978 this significance was reached at $P = 0.05$. The χ^2 - test could not be applied in 1976 as more than 5% of the cells had a expected value smaller than 5.

Silvana grows more prostrate than Biljart. In 1976 and 1978 Silvana differed significantly from Biljart at the $P = 0.01$ level for this character with a χ^2 - test. In 1977 this test could not be applied.

The panicle length of Silvana differs significantly from that of Biljart at the $P = 0.01$ level over the years 1976, 1977 and 1978 with a sign test.

4410 AA RILLAND

(AMENDED)

Re: Application No. 7600069 Hard Fescue Silvana.
Exhibit B: Novelty Statement.

Novelty of Silvana is based on the unique combination of the following characteristics:

- Silvana is most similar to Scaldis except that it has shown:
- (1) a somewhat lighter green colour
 - (2) an earlier maturity *Supporting data rec 3/17/81 DGH*
 - (3) a better turf quality as expressed by a better general appearance, a greater density and a finer texture in turf tests at Beltsville (Maryland), Kingston (Rhode Island), Parma (Idaho), Hubbard (Oregon) and Agassiz (British Columbia, Canada)
 - (4) a better performance under winter stress conditions at Agassiz (British Columbia, Canada) as expressed by winter greenness in march 1979
 - (5) a better performance under summer stress conditions at Beltsville (Maryland) as expressed by % plot green in july 1979
 - (6) a better resistance to Corticium fuciforme (red thread) and
 - (7) a better resistance to Helminthosporium sp (leaf spot)

The following data are indicative of novelty.

- Location: Beltsville (Maryland)
- Person responsible: Dr. J.J. Murray,
Beltsville Agricultural Research Center,
Bld 001, Rm 333,
Beltsville,
Maryland 20705.
- Sown: september 1977 in 3 replications, 47 entries.

Results for 1978.

Turf quality (9 = best)

	April	June	July	August	September	October	November	Average
Silvana	6.0	6.0	7.0	7.3	6.7	7.0	6.7	6.7
Scaldis	6.3	5.0	4.7	4.7	3.3	3.3	3.0	4.3

The two averages were significantly different at $P = 0.05$

	% Ground Cover		Helminthosporium (leaf spot)	
	november 1977	april 1978	july 1978	
Silvana	85	99	7.0	
Scaldis	83	96	5.7	

(9 = resistant)

The difference between Silvana and Scaldis for Helminthosporium resistance was significant ($P = 0.05$).

STAN ROLLIN
SEED CONSULTANT
6802 OREM DRIVE
LAUREL, MD. 20810
March 14, 1981

Dr. J. J. Higgins
Examiner
Plant Variety Protection Office
L, P, G & S Division, AMS, USDA,
National Agricultural Library Bldg.,
Fifth Floor
Beltsville, MD. 20705

Dear Dr. Higgins:

Subject: Hard Fescue Application No. 7900069, 'Silvana'

In answer to your letter of January 29 on the above subject, my client has informed me that in 1980 a significant difference between the varieties 'Scaldis' and 'Silvana' existed for the 50% heading date in the official Dutch trials. The following information was submitted by the Government Institute for Variety Testing at Wageningen, the Netherlands:

50% Maturity	Scaldis	Silvana	LSD(0.05)	LSD(0.01)
(days after 1st April)	33	30	2.1	2.9

My client does not have data regarding the relative resistance to Fusarium nivale on 'Scaldis' and 'Silvana'; however, he is having artificial inoculation tests done in the U. S. and would like to have an extension of time in which to accomplish this. Since he has not indicated how much time will be required, I have written to him to determine this and immediately upon receiving this information I shall request an extension of time be granted by the Commissioner to complete these additional tests.

Sincerely yours,


STAN ROLLIN

cc van Wijk

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
FESCUE
(*Festuca* spp.)

NAME OF APPLICANT(S) Koninklijk Kweekbedrijf en Zaadhandel D.J. van der Have B.V.	VARIETY NAME OR TEMPORARY DESIGNATION Silvana
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P.O. Box 1, 4420 AA Kapelle, Netherlands.	FOR OFFICIAL USE ONLY PVPO NUMBER 7900069

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9 or less. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: RIVRO-system. Describe location of test area Rilland and Wageningen in Netherlands. All questions need not be answered, however, completeness should be striven for in order to establish the most adequate Variety Identification.

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

<input type="text" value="6"/>	1 = F. ARUNDINACEA (TALL)	11 = ALTA	12 = FAWN	13 = GOAR	14 = KENTUCKY 31
	2 = F. PRATENSIS (MEADOW)	21 = ENSIGN	22 = TRADER		
	3 = F. RUBRA SSP. COMMUTATA (CHEWINGS)	31 = CASCADE	32 = HIGHLIGHT	33 = JAMESTOWN	
	4 = F. RUBRA SSP. RUBRA (RED)	41 = BOREAL	42 = PENNLAWN	43 = DAWSON	
	5 = F. OVINA VAR. OVINA (SHEEP)				
	6 = F. LONGIFOLIA (HARD)	61 = DURAR	62 = BILJART (C-26)	63 = SCALDIS	
	7 = OTHER (SPECIFY) F. _____				

2. CYTOLOGY

<input type="text" value="4"/>	<input type="text" value="2"/>	2n CHROMOSOME NUMBER
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3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

<input type="text" value="2"/> NORTHEAST	<input type="text" value="2"/> SOUTHEAST	<input type="text" value="2"/> NORTH CENTRAL	<input type="text" value="2"/> PACIFIC N.W.	<input type="text" value="2"/> OTHER (SPECIFY) <u>South east for over-seeding</u>
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4. MATURITY: (50% Headed) Give Test Area Wageningen (520 NL) Netherlands

<input type="text" value="0"/>	<input type="text" value="2"/>	DAYS EARLIER THAN	<input type="text" value="6"/>	<input type="text" value="3"/>	} COMPARISON VARIETY
		MATURITY SAME AS	<input type="text" value="-"/>	<input type="text" value="-"/>	
<input type="text" value="0"/>	<input type="text" value="1"/>	DAYS LATER THAN	<input type="text" value="6"/>	<input type="text" value="2"/>	

5. PLANT HEIGHT: (At maturity to top of panicle)

<input type="text" value="7"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	mm HEIGHT		
<input type="text" value="2"/>	<input type="text" value="0"/>	mm SHORTER THAN	<input type="text" value="6"/>	<input type="text" value="3"/>	} COMPARISON VARIETY
		HEIGHT SAME AS	<input type="text" value="-"/>	<input type="text" value="-"/>	
<input type="text" value="5"/>	<input type="text" value="0"/>	mm TALLER THAN	<input type="text" value="6"/>	<input type="text" value="2"/>	

6. GROWTH HABIT (Mature)

<input type="text" value="3"/>	1 = ERECT (KENTUCKY 31)	2 = SEMI-ERECT (HIGHLIGHT)	3 = PROSTRATE
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7. RHIZOMES

<input type="text" value="-"/>	<input type="text" value="-"/>	mm LENGTH	<input type="text" value="-"/>	<input type="text" value="-"/>	mm WIDTH
<input type="text" value="0"/>	0 = ABSENT	1 = WEAKLY CREEPING (DAWSON)	2 = STRONGLY CREEPING (BOREAL)	3 = OTHER	_____

8. LEAF BLADE:

<input type="text" value="4"/>	COLOR:	1 = LIGHT GREEN (GOLFRUOD)	2 = MODERATELY LIGHT GREEN (HIGHLIGHT)	3 = MEDIUM GREEN (JAMESTOWN, KENTUCKY 31)	
		4 = DARK GREEN (CASCADE)	5 = BLUEGREEN	6 = GRAYGREEN	7 = OTHER (SPECIFY) <u>7</u>

8. LEAF BLADE:

7900069

1 = SMOOTH

0 ANTHOCYANIN: 0 = ABSENT 1 = PRESENT 1 HAIRS (BASAL): 0 = ABSENT 1 = PRESENT

2 MARGINS: 2 = SEMI-ROUGH
3 = ROUGH

- - - mm LENGTH (FIRST LEAF BELOW FLAG LEAF)

- - mm WIDTH

- - mm SHORTER THAN

- -

- -

mm NARROWER THAN

- -

LENGTH SAME AS

- -

COMPARISON
VARIETY

WIDTH SAME AS

- -

COMPARISON
VARIETY

- - mm LONGER THAN

- -

- -

mm WIDER THAN

- -

9. LEAF SHEATH (Plant Base):

2 COLOR: 1 = WHITE (HIGHLIGHT) 2 = RED

1 AURICLE HAIRINESS: 0 = ABSENT 1 = PRESENT

10. PANICLE (Mature plant)

- - - NUMBER OF PANICLES PER PLANT (FIRST YEAR OF PRODUCTION - FALL OR SPRING PLANTING
SPECIFY

0 8 0 mm LENGTH

- - - GRAMS OF SEED PER PANICLE

1 0 mm SHORTER THAN

6 3

- -

GRAMS LESS SEED THAN

- -

LENGTH SAME AS

- -

COMPARISON
VARIETY

WEIGHT SAME AS

- -

COMPARISON
VARIETY

1 0 mm LONGER THAN

6 2

- -

GRAMS MORE SEED THAN

- -

2 SHAPE: 1 = NARROW-TAPERING 2 = EGG SHAPE 3 = OBLONG 4 = OTHER (SPECIFY)

2 TYPE: 1 = OPEN 2 = INTERMEDIATE 3 = COMPACT

2 HABIT: 1 = ERECT 2 = NODDING

2 BRANCHES: 1 = SMOOTH 2 = ROUGH

4 COLOR (At 50% flowering): 1 = YELLOWISH GREEN 2 = GREEN 3 = BLUISH GREEN 4 = PURPLISH 5 = REDDISH
6 = OTHER (SPECIFY)

11. PALEA:

1 HAIRS (ON KEELS): 0 = ABSENT 1 = SHORT (OLDS) 2 = LONG (RAINIER)

12. LEMMA:

1 HAIRS: 0 = ABSENT 1 = PRESENT

2 TEXTURE: 1 = SMOOTH 2 = ROUGH

4 7 mm LEMMA LENGTH

9 3 mm LEMMA WIDTH

- - mm SHORTER THAN

- -

0 4

mm NARROWER THAN

6 3

LENGTH SAME AS

- -

COMPARISON
VARIETY

WIDTH SAME AS

- -

COMPARISON
VARIETY

0 3 mm LONGER THAN

6 3

0 8

mm WIDER THAN

6 2

1 AWNS: 0 = ABSENT 1 = PRESENT

1 5 mm AWN LENGTH

12. LEMMA:

<input type="text" value="1"/> <input type="text" value="1"/>	mm SHORTER THAN	<input type="text" value="1"/> <input type="text" value="1"/>	} COMPARISON VARIETY
	LENGTH SAME AS	<input type="text" value="1"/> <input type="text" value="1"/>	
<input type="text" value="0"/> <input type="text" value="5"/>	mm LONGER THAN	<input type="text" value="6"/> <input type="text" value="3"/>	

13. SEED:

<input type="text" value="5"/> <input type="text" value="8"/> <input type="text" value="1"/>	mm LENGTH	<input type="text" value="9"/> <input type="text" value="3"/>	mm WIDTH
<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="1"/>	mm SHORTER THAN	<input type="text" value="0"/> <input type="text" value="6"/>	mm. NARROWER THAN
	LENGTH SAME AS	<input type="text" value="6"/> <input type="text" value="3"/>	} COMPARISON VARIETY
<input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="2"/>	mm LONGER THAN	<input type="text" value="6"/> <input type="text" value="3"/>	
	WIDTH SAME AS	<input type="text" value="1"/> <input type="text" value="1"/>	
<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="8"/> <input type="text" value="0"/>	GRAMS PER 1000 SEED	<input type="text" value="1"/> <input type="text" value="1"/>	mm WIDER THAN
<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="1"/>	GRAMS LESS THAN	<input type="text" value="6"/> <input type="text" value="3"/>	} COMPARISON VARIETY
	WEIGHT SAME AS	<input type="text" value="1"/> <input type="text" value="1"/>	
<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="2"/>	GRAMS MORE THAN	<input type="text" value="6"/> <input type="text" value="3"/>	

14. DISEASE, INSECT, AND NEMATODE (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

<input type="text" value="0"/> <u>HELMINTHOSPORIUM VAGANS</u>	<input type="text" value="0"/> <u>H. SOROKINIANUM</u>	<input type="text" value="0"/> <u>H. DICTYOIDES</u>
<input type="text" value="0"/> <u>RHIZOCTONIA SOLANI</u>	<input type="text" value="2"/> <u>ERYSIPHE GRAMINIS</u>	<input type="text" value="0"/> <u>USTILAGO STRIIFORMIS</u>
<input type="text" value="1"/> <u>FUSARIUM NIVALE</u>	<input type="text" value="0"/> <u>F. ROSEUM</u>	<input type="text" value="0"/> <u>TYPHULA LOTANA</u>
<input type="text" value="2"/> <u>PUCCINIA GRAMINIS</u>	<input type="text" value="0"/> <u>P. STRIIFORMIS</u>	<input type="text" value="2"/> <u>P. POAE-NEMORALIS</u>
<input type="text" value="2"/> <u>P. CORONATA</u>	<input type="text" value="0"/> <u>PYTHIUM ULTIMUM</u>	<input type="text" value="2"/> <u>CORTICIUM FUSCIFORME</u>
<input type="text" value="0"/> <u>SCLEROTINIA HOMEOCARPA</u>	<input type="text" value="0"/> INSECT _____	<input type="text" value="0"/> NEMATODE _____
<input type="text" value="1"/> OTHER _____	<input type="text" value="1"/> OTHER _____	<input type="text" value="1"/> OTHER _____

15. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate degree of resemblance (D.R.) by placing in the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety

2 = Same as

3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
RHIZOME LENGTH	Scaldis	2	GROWTH HABIT	Biljart	1
LEAF WIDTH	Biljart	3	LEAF COLOR	Biljart	3
PANICLE COLOR	Scaldis	2	PANICLE SHAPE	Scaldis	2
WINTER COLOR	Scaldis	2	COLD INJURY	Scaldis	2
SHADE TOLERANCE	Scaldis	2	HEAT	Scaldis	2
DROUGHT	Scaldis	2	DISEASE*	Scaldis	2

*Specify each disease evaluated.

16. ADDITIONAL DESCRIPTION: (Use additional sheets as required)

7900069

Describe all characteristics that cannot be adequately described in the form above. Comparative varieties should be used as may be appropriate, such as for disease. Append all comparative trial and evaluation data, including measured characters, environmental, and disease tests.

5. Plant height in cm

	1976	1977	1978	Mean
Biljart	65	74	56	65
Scaldis	71	79	65	72
Silvana	69	79	61	70

LSD 1%	6.10	4.81	4.13
LSD 5%	4.49	3.56	3.07

10. Panicle length in cm

Biljart	7	7	8	7
Scaldis	8	9	9	9
Silvana	8	8	9	8

LSD 1%	1.22	1.08	0.69
LSD 5%	0.89	0.80	0.51

Flag leaf length in cm

Biljart	5.6	6.6	4.3	5.5
Scaldis	6.2	7.5	4.5	6.1
Silvana	6.2	6.9	4.5	5.9

LSD 1%	1.29	1.06	0.74
LSD 5%	0.95	0.79	0.55